INDEX

July to September, 1922.

[*For Index of Register of Patents, Correspondence, and Parliamentary and Legal Intelligence, see pp. vii. and viii.*]

A Link with the Past, 641
Accidents, 713
Accounts—
  Gas World Analysis of Municipal, 93
  Made out by Meter, 155
Accrington Gas Board, 110, 167, 659
Acetylene, Mantle Lighting with, 467
Air, The Value of Clean, Fresh, 321
Airdrie Gas Undertaking, 337, 538
Alcohol as a Motor Fuel, 321
Aldershot Gas, Water, and Lighting Company, 313, 658, 714
Alfreton Gas Prices, 110
Alkali Works, Chief Inspector's Report, 139, 140, 142, 149, 150, 213
Allen, Mr. S. T., on the Electrical Outlook, 23
Alliance and Dublin Consumers' Gas Company—
  Claim for Destruction of Property, 221
  Dividend, 485
  Half-Yearly Report, 658
Alloa, Price of Gas at, 42
Alnwick Calorific Power, 43
Altrincham Gas Company's Order, 104
America—
  British Gas Coal for, 203
  Coal Miners' Strike in, 369
  Coal Situation in, 531
  Gas Sales Statistics, 36
  Natural Gas in, 142, 143, 149
  Official Reports and Bulletins, 36, 370, 372, 376, 423, 530, 531
  Valuation of Gas-Mains in, 270
American Gas Association's Research Work on Gas Asphyxiation, 29
Ammonia Output and Steaming of Horizontals, 645
Ammonia Yield in the Carbonization of Coal, Factors Influencing the, 522, 527, 595
Ammoniacal Liquor—
  Design and Working of Stills for, 89, 140
  Treatment of Effluent Spent Liquor, 150
Annan Gas Company, 333
Anthracite and the Anthracite Industry, 530
Arkansas, Natural Gas in, 143
Armagh Gas Company, 221
Armstrong, Prof. H. E, on the Rational Use of Coal, 576
Ascension Pipes, 315
Ascot District Gas and Electricity Company, 525
Ash Fusion Producer, 424
Ashbourne Gas Plant Extensions, 219, 711
Assault on a Gas Official, 713
Assessment Questions—
  Eyemouth Gas Company, 653
  Kirkcudbright Gas Company, 713
  Natural Gas Mains, 270
  New Coldstream Gas Company, 653
  Public Utility Undertakings, 273
Association of Public Authorities Mutual Supplies, Ltd., 271
Ashton-in-Makerfield Gas Order, 218, 381
Australian Gas Light Company, 711
Aylesbury Gas Company's Area, 219

Bailey, Dr. T. Lewis, on the—
  Disposal of Spent Liquor, 213
  Treatment of Effluent Spent Liquors from the Distillation of Ammoniacal Liquor, 150
Bailleston Gas Works Ownership, 337
Bakewell Gas Undertaking—
  Alleged River Pollution from, 42
  Price of Gas, 659
Balbriggan Gas Works, 370
Ballymena Gas Undertaking, 110
Banff Gas Company, 435
Bank Rate Reduction, 141
Barmouth Public Lighting Question, 658
Barnet District Gas and Water Company, 435, 534
Barnsley Gas Company, 43, 480, 536
Barnstaple Gas Order, 218, 429
Barrel Drying by Gas, 214
Barrow Gas and Water Undertaking, 107, 110, 467
Bath Gas Company, 710, 712
Beauchamp, Mr. J. W., on Cooking by Gas and Electricity, 87, 468
Beighton and Coke-Oven Gas, 536
Belfast, Street Lamp Smashing in, 603
Benham's Cooking Equipment at the London County Council Hall, 206
Benner Coal Gas Process, 87
Benzol and Bye-Product Company, Ltd., 37
Benzole—
  Best Position for the Plant, 92
  Production in the United Kingdom, 330
  Recovery by Means of Active Carbon, 416, 421
Berlin Gas Works and British Coal, 477
Bexhill Water and Gas Company, 381, 603, 712
Bideford Gas Order, 43, 274, 278
Bill, The Model, 523
Bingley Gas and Electricity Department, 47, 221, 485
Birkenhead Gas Prices, 335
Birmingham, Gas Manufacture from Sewage at, 661
Birmingham Corporation—
  Accounts, 219
  Lighting of Courts, 273
Birmingham Gas Undertaking—
  Bill, 162
  Development, 170
  Extensions, 273
  Presentations to Officials, 49
  Price Reduction, 45, 219, 274
Blackburn Education Committee and Electricity for Cooking, 51
Blackburn Gas Undertaking, 47, 97, 603
Blackpool Gas Output, 714
Blow Gases of Water-Gas Plant for Retort Heating, 311, 324
Bodmin Tar and Bituminous Macadam Plant, 267
Bognor Gas Company, 536
Bolton, Wilful Damage to Street Lamps at, 221
Bolton Gas Undertaking, 274, 714
Bo'ness Gas Company, 271
Bonnet, M. Ed., on a Waterless Gasholder, 254, 268
Books Received—
  Anthracite (Summers), 530
  Collected Researches (National Physical Laboratory), 372
  Fair Wages Clause (National Joint Council for the Labour Movement), 645
  Gas World Analysis of Municipal Gas Accounts, 93
  Income Tax Tables (Oliver and Boyd), 372
  Labour Policy False and True (Macassey), 321
  Mechanical Handling and Storing of Material (Zimmer), 316
  Non-Benzenoid Hydrocarbons (Brooks), 145
  The Smokeless City (Simon and Fitzgerald), 259
Booth, Mr. W. F., on a Distinctive Odour for Natural Gas, 422
Bordon Gas Order, 218
Boston (Lincs.) Gas Company, 170
Bourne Gas Undertaking, 22
Bournemouth Gas and Water Company—
  Directorate Change, 87
  Reduction in Price, 432
  Visit of the Sanitary Institute to the Works of, 265
Bourton on the Water Gas Company, Ltd., 429
Boys' Recording and Integrating Gas Calorimeter, 25
Bradford, A Mantle Complaint at, 485
Bradford Gas Undertaking, 106, 659
Bravery, King's Award for, 597
Brechin Gas Company, 170
Brentford Gas Company—
  Price Reduction, 379
  War Memorials, 166
Breisig, Herr A., on the Strache Process of Complete Gasification, 702
Breslau Gas Works, Ammonia Output and Steaming of Horizontals at, 645
Bridlington Gas Company, 87, 536
Brierley Hill, Price Reduction at, 220
Briggs, Mr. F. C., on Therms and Gas Accounts, 537
Brighouse Price Reduction, 109, 160
Brighton and Hove Gas Company—
  Co-Partnership, 166
  Fire at the Portslade Works, 598
  Reduction in Price, 429
Brighton Electricity Supply Failure, 485
Bristol City Council and the Gas Charges, 170
Bristol First Exhibition, 536
Bristol Price Reduction, 657
British Association for the Advancement of Science—
  Comments, 417, 637
  Date of Next Meeting, 644
  Fuel Economy Committee's Report, 590, 648
British Association for the Advancement of Science (*continued*)—
  Goodwin, Capt. C. J., on the Hausser Explosion Process of Nitric Acid Synthesis, 706
  Harker, Dr. J. A., on Nitrogen Fixation, 705
  Lander, Dr. C. H., on Economic Steam Production, 651
  Maxted, Dr. E. B., on Water Power and Nitrogen Fixation, 707
  Owens, Dr. J. S., on Atmospheric Dust, 642
  West, Mr. J. H., on the Manufacture of Hydrogen, 706
British Cast Iron Research Association, 647
British Commercial Gas Association—
  Annual Conference, 467
  Lighting Committee, 270
  Literature, 214, 323, 474, 655
  National Gas Competition, 43
British Dyestuffs Corporation, 480
British Empire Exhibition, 416
British Empire Trust Company, 108
British Engineering Societies, Proposed Association of, 644
British Engineering Standards Association, 206, 330
British Gas Light Company—
  Directors' Report, 710
  Dividend, 477
  Staff Appointment, 525
  Transfer of Etruria Works to the Stoke Corporation, 46
British Kaolin, Ltd., 271
Brixham Gas Order, 43 (2)
Broadhead's Axleless Bearings for Gasholders, 21, 28
Bromsgrove Gas and Coke Company, 330
Brooks, Dr. B. T., on the Non-Benzenoid Hydrocarbons, 145
Brotherhood Crude Oil Engine, 27
Brotherton & Co.'s Workers, King's Award for Bravery to, 597
Broughton Gas Question, 477
Brown, Mr. Ralph L., on the Gum and Resin Forming Constituents in Manufactured Gas, 327
Brown, Mr. Reginald, on Concrete Oil Tanks, 576
Brownhills Public Lighting, 658
Bryan Donkin Company's Works, 704
Brynmawr and Blaina Gas Company's Calorific Power, 218
Buckhaven, Methil, and Leven Gas Undertaking, 41, 485, 659
Buckie Gas Company, 42, 713
Burner Devices for Gas Saving, 24
Burners—
  Effect of B.Th.U. on Efficiency of, 530
  Nico, 27
  Standardization of, 37, 97, 214, 270, 271
  Welsbach Economy, 536
Burnley Gas Undertaking, 106, 337
Burslem, An Unregistering Gas Meter at, 98
Burton-on-Trent Gas Undertaking, 45
Buxton Gas Profits, 110

Calgary Gas Supply, 108
Calne Gas Order, 656
Calorific Power (*see also* Gas Regulation Act)—
  French Legislation on, 644
  Indicators for Works, 697
Calorimeters—
  Boys' Recording and Integrating, 25
  Thomas Recording, 210
Calverley and Horsforth Gas Order, 274
Canada—
  British Coal for, 525
  Gas Industry in, 84, 92
Caputi, Mr. N. G., on Thin Metal Standpipes, 315
Carboleum (Spain), Ltd., 600
Carbon Black, Use of, in Rubber, 531
Carbon Monoxide—
  Contamination of Air with, 376
  Limitation of, 464
Carbonization—
  Complete Gasification—
    Rincker Processes of, 473, 597
    Société Technique on, 372
    Strache Process, 702
  Economies in, 466

INDEX

July to September, 1922.

[*For Index of Register of Patents, Correspondence, and Parliamentary and Legal Intelligence, see pp. vii. and viii.*]

A Link with the Past, 641
Accidents, 713
Accounts—
  Gas World Analysis of Municipal, 93
  Made out by Meter, 155
Accrington Gas Board, 110, 167, 659
Acetylene, Mantle Lighting with, 467
Air, The Value of Clean, Fresh, 321
Airdrie Gas Undertaking, 337, 538
Alcohol as a Motor Fuel, 321
Aldershot Gas, Water, and Lighting Company, 313, 658, 714
Alfreton Gas Prices, 110
Alkali Works, Chief Inspector's Report, 139, 140, 142, 149, 150, 213
Allen, Mr. S. T., on the Electrical Outlook, 23
Alliance and Dublin Consumers' Gas Company—
  Claim for Destruction of Property, 221
  Dividend, 485
  Half-Yearly Report, 658
Alloa, Price of Gas at, 42
Alnwick Calorific Power, 43
Altrincham Gas Company's Order, 104
America—
  British Gas Coal for, 203
  Coal Miners' Strike in, 369
  Coal Situation in, 531
  Gas Sales Statistics, 36
  Natural Gas in, 142, 143, 149
  Official Reports and Bulletins, 36, 370, 372, 376, 423, 530, 531
  Valuation of Gas-Mains in, 270
American Gas Association's Research Work on Gas Asphyxiation, 29
Ammonia Output and Steaming of Horizontals, 645
Ammonia Yield in the Carbonization of Coal, Factors Influencing the, 522, 527, 595
Ammoniacal Liquor—
  Design and Working of Stills for, 89, 140
  Treatment of Effluent Spent Liquor, 150
Annan Gas Company, 333
Anthracite and the Anthracite Industry, 530
Arkansas, Natural Gas in, 143
Armagh Gas Company, 221
Armstrong, Prof. H. E, on the Rational Use of Coal, 576
Ascension Pipes, 315
Ascot District Gas and Electricity Company, 525
Ash Fusion Producer, 424
Ashbourne Gas Plant Extensions, 219, 711
Assault on a Gas Official, 713
Assessment Questions—
  Eyemouth Gas Company, 653
  Kirkcudbright Gas Company, 713
  Natural Gas Mains, 270
  New Coldstream Gas Company, 653
  Public Utility Undertakings, 273
Association of Public Authorities Mutual Supplies, Ltd., 271
Ashton-in-Makerfield Gas Order, 218, 381
Australian Gas Light Company, 711
Aylesbury Gas Company's Area, 219

Bailey, Dr. T. Lewis, on the—
  Disposal of Spent Liquor, 213
  Treatment of Effluent Spent Liquors from the Distillation of Ammoniacal Liquor, 150
Bailleston Gas Works Ownership, 337
Bakewell Gas Undertaking—
  Alleged River Pollution from, 42
  Price of Gas, 659
Balbriggan Gas Works, 370
Ballymena Gas Undertaking, 110
Banff Gas Company, 435
Bank Rate Reduction, 141
Barmouth Public Lighting Question, 658
Barnet District Gas and Water Company, 435, 534
Barnsley Gas Company, 43, 480, 536
Barnstaple Gas Order, 218, 429
Barrel Drying by Gas, 214
Barrow Gas and Water Undertaking, 107, 110, 467
Bath Gas Company, 710, 712
Beauchamp, Mr. J. W., on Cooking by Gas and Electricity, 87, 468
Beighton and Coke-Oven Gas, 536
Belfast, Street Lamp Smashing in, 603
Benham's Cooking Equipment at the London County Council Hall, 206
Benner Coal Gas Process, 87
Benzol and Bye-Product Company, Ltd., 37
Benzole—
  Best Position for the Plant, 92
  Production in the United Kingdom, 330
  Recovery by Means of Active Carbon, 416, 421
Berlin Gas Works and British Coal, 477
Bexhill Water and Gas Company, 381, 603, 712
Bideford Gas Order, 43, 274, 278
Bill, The Model, 523
Bingley Gas and Electricity Department, 47, 221, 485
Birkenhead Gas Prices, 335
Birmingham, Gas Manufacture from Sewage at, 661
Birmingham Corporation—
  Accounts, 219
  Lighting of Courts, 273
Birmingham Gas Undertaking—
  Bill, 162
  Development, 170
  Extensions, 273
  Presentations to Officials, 49
  Price Reduction, 45, 219, 274
Blackburn Education Committee and Electricity for Cooking, 51
Blackburn Gas Undertaking, 47, 97, 603
Blackpool Gas Output, 714
Blow Gases of Water-Gas Plant for Retort Heating, 311, 324
Bodmin Tar and Bituminous Macadam Plant, 267
Bognor Gas Company, 536
Bolton, Wilful Damage to Street Lamps at, 221
Bolton Gas Undertaking, 274, 714
Bo'ness Gas Company, 271
Bonnet, M. Ed., on a Waterless Gasholder, 254, 268
Books Received—
  Anthracite (Summers), 530
  Collected Researches (National Physical Laboratory), 372
  Fair Wages Clause (National Joint Council for the Labour Movement), 645
  Gas World Analysis of Municipal Gas Accounts, 93
  Income Tax Tables (Oliver and Boyd), 372
  Labour Policy False and True (Macassey), 321
  Mechanical Handling and Storing of Material (Zimmer), 316
  Non-Benzenoid Hydrocarbons (Brooks), 145
  The Smokeless City (Simon and Fitzgerald), 259
Booth, Mr. W. F., on a Distinctive Odour for Natural Gas, 422
Bordon Gas Order, 218
Boston (Lincs.) Gas Company, 170
Bourne Gas Undertaking, 22
Bournemouth Gas and Water Company—
  Directorate Change, 87
  Reduction in Price, 432
  Visit of the Sanitary Institute to the Works of, 265
Bourton on the Water Gas Company, Ltd., 429
Boys' Recording and Integrating Gas Calorimeter, 25
Bradford, A Mantle Complaint at, 485
Bradford Gas Undertaking, 106, 659
Bravery, King's Award for, 597
Brechin Gas Company, 170
Brentford Gas Company—
  Price Reduction, 379
  War Memorials, 166
Breisig, Herr A., on the Strache Process of Complete Gasification, 702
Breslau Gas Works, Ammonia Output and Steaming of Horizontals at, 645
Bridlington Gas Company, 87, 536
Brierley Hill, Price Reduction at, 220
Briggs, Mr. F. C., on Therms and Gas Accounts, 537
Brighouse Price Reduction, 109, 160
Brighton and Hove Gas Company—
  Co-Partnership, 166
  Fire at the Portslade Works, 598
  Reduction in Price, 429
Brighton Electricity Supply Failure, 485
Bristol City Council and the Gas Charges, 170
Bristol First Exhibition, 536
Bristol Price Reduction, 657
British Association for the Advancement of Science—
  Comments, 417, 637
  Date of Next Meeting, 644
  Fuel Economy Committee's Report, 590, 648
British Association for the Advancement of Science (*continued*)—
  Goodwin, Capt. C. J., on the Hausser Explosion Process of Nitric Acid Synthesis, 706
  Harker, Dr. J. A., on Nitrogen Fixation, 705
  Lander, Dr. C. H., on Economic Steam Production, 651
  Maxted, Dr. E. B., on Water Power and Nitrogen Fixation, 707
  Owens, Dr. J. S., on Atmospheric Dust, 642
  West, Mr. J. H., on the Manufacture of Hydrogen, 706
British Cast Iron Research Association, 647
British Commercial Gas Association—
  Annual Conference, 467
  Lighting Committee, 270
  Literature, 214, 323, 474, 655
  National Gas Competition, 43
British Dyestuffs Corporation, 480
British Empire Exhibition, 416
British Empire Trust Company, 108
British Engineering Societies, Proposed Association of, 644
British Engineering Standards Association, 206, 330
British Gas Light Company—
  Directors' Report, 710
  Dividend, 477
  Staff Appointment, 525
  Transfer of Etruria Works to the Stoke Corporation, 46
British Kaolin, Ltd., 271
Brixham Gas Order, 43 (2)
Broadhead's Axleless Bearings for Gasholders, 21, 28
Bromsgrove Gas and Coke Company, 330
Brooks, Dr. B. T., on the Non-Benzenoid Hydrocarbons, 145
Brotherhood Crude Oil Engine, 27
Brotherton & Co.'s Workers, King's Award for Bravery to, 597
Broughton Gas Question, 477
Brown, Mr. Ralph L., on the Gum and Resin Forming Constituents in Manufactured Gas, 327
Brown, Mr. Reginald, on Concrete Oil Tanks, 576
Brownhills Public Lighting, 658
Bryan Donkin Company's Works, 704
Brynmawr and Blaina Gas Company's Calorific Power, 218
Buckhaven, Methil, and Leven Gas Undertaking, 41, 485, 659
Buckie Gas Company, 42, 713
Burner Devices for Gas Saving, 24
Burners—
  Effect of B.Th.U. on Efficiency of, 530
  Nico, 27
  Standardization of, 37, 97, 214, 270, 271
  Welsbach Economy, 536
Burnley Gas Undertaking, 106, 337
Burslem, An Unregistering Gas Meter at, 98
Burton-on-Trent Gas Undertaking, 45
Buxton Gas Profits, 110

Calgary Gas Supply, 108
Calne Gas Order, 656
Calorific Power (*see also* Gas Regulation Act)—
  French Legislation on, 644
  Indicators for Works, 697
Calorimeters—
  Boys' Recording and Integrating, 25
  Thomas Recording, 210
Calverley and Horsforth Gas Order, 274
Canada—
  British Coal for, 525
  Gas Industry in, 84, 92
Caputi, Mr. N. G., on Thin Metal Standpipes, 315
Carboleum (Spain), Ltd., 600
Carbon Black, Use of, in Rubber, 531
Carbon Monoxide—
  Contamination of Air with, 376
  Limitation of, 464
Carbonization—
  Complete Gasification—
    Rincker Processes of, 473, 597
    Société Technique on, 372
    Strache Process, 702
  Economies in, 466

Chem-Eng.
Faxon

Carbonization (*continued*)—
Factors Influencing the Ammonia Yield in, 522, 527, 595
High Temperature, 310, 317, 368
Low Temperature—
Chaney, Mr. Walter, on, 463, 475
Illingworth, Mr. S. Roy, on, 26
Miners and 522
Roberts, Mr. John, on Blending in, 27
Sutcliffe and Evans, Messrs., on, 310, 317, 368
Carlisle Gas Undertaking, 535, 577, 713
Caster, Mr. W. A., on Three Light or Five Light Meters, 372
Castleford and Whitwood Gas Light and Coke Company, 257, 534, 656
Caussé, M., on Phenomena of Flame Extinction, 647
Cement, Cause and Prevention of Deterioration in, 470
Ceramic Society, 702
Chamberlain, Mr. H., on Purification of Coal Gas, 315
Chambers and Hammond, 109
Chaney, Mr. Walter, on Low Temperature Carbonization and the Therm, 463, 475
Chapel Whaley and District Gas Company, 104
Cheltenham Chamber of Commerce and the Gas Charges, 431
Chemical Control of Gas Works Processes, 639
Chemical Works Regulation, 335
Chenoweth and Dykema, Messrs., on Low Pressure Gasoline Plants, 425
Chester Corporation and the Basic Price, 37
Chester Gas Company, 216, 483, 597
Chesterfield Gas Undertaking—
Coke Oven Gas Supply, 37
Extensions, 51, 711
Inspection by the Corporation, 42
Visit of the Manchester Institution of Gas Engineers to the Works, 703
Chichester Gas Company, 429, 484
Chorley Gas Works Report, 108
Churnet Valley Gas Company, 525, 698
City and Guilds of London—
Examinations, 264, 323
Offices, 476
Programme, 470
Clairton, Koppers Ovens at, 690
Clayton-le-Moors Gas Prices, 110
Cleveland Gas Company, 431
Coal—
And Coal Working, 476
Canada's Requirements, 525
Crusher, A German, 420
Exports, 22, 203, 204, 466, 698
Factors Influencing the Ammonia e d in the Carbonization of, 522, 527, 595
Liquefaction of, for Fuel Purposes, 417
Oil from, 522
Position, 21, 85, 204, 256, 312, 417, 465, 466, 524, 640, 696
Preservation Experiments, 368, 375
Production Costs, 256
Seams, Structure of, 530
Spontaneous Combustion in, 160, 376
Submerged Storage of, 326, 368, 375
Trade Statistics, 418
Coal Miners' Federation, 204
Coal Miners' Strike in America, 369
Coal Miners' Wages, 86, 256, 418, 524
Coatbridge Gas Company, 49, 335
Cobb, Prof. John W., on Gaseous Fuel, 260
Cockey's Gas Works Plant, 277
Coke—
Breeze, Gasification of, 424
Cooling and Heat Recovery, 700
Crusher, A German, 420
Desulphurizing, 93, 370
Determining the Specific Gravity in, 593
Exports, 22, 204, 466, 698
Moisture in, 86
Skip Hoist for Elevating, 214
Coke Oven Gas Supplies, 37, 367, 373, 379, 536
Coke Oven Managers' Association—Visit to the Staveley Coal and Iron Company's Works, 530
Coke Ovens, Roberts Patent, 315
Colchester Gas Company, 658
Coleraine Electric Lighting Scheme, 710
Colwell Gas Company, 710
Colwyn Bay Gas Undertaking, 42, 659, 714
Commercial Gas Company—
Dividend, 148
Official Tests, 163
Price Reduction, 275
Companies, New Joint Stock—
Association of Public Authorities Mutual Supplies, Ltd., 271
Carboleum (Spain), Ltd., 600
Chambers and Hammond, 109
Control Engineering Company, 431
Illingworth Carbonization Company, 220
Incandescent Gas Ovens, 109
Regenerative Coal Gasification System, Ltd., 109
Tarbitumac, Ltd., 600
Vincent Northcote Company, 220
Watherton and Company, 435
Compensation, Workmen's, 640
Compressor Outfit for Service Cleaning, 97
Concrete Oil Tanks, 576
Congleton Gas Undertaking, 51
Consett Iron Company, 603
Consumers, Prepayment, and a Price Increase, 42
Controla Engineering Company, 431
Conway Gas Undertaking, 335
Cookers—
Electric, Co-operative Buying of, 526
Gas—
British Association Fuel Economy Committee's Report on, 649
Standard Specification of, 19, 30, 84, 94, 141, 156, 203, 211, 576
Cookery Competitions at the "Daily Express" Woman's Exhibition, 103, 275
Cooking by Gas and Electricity, 87, 372, 419, 468, 469, 578, 642, 699
Co-Partnership—
Aldershot Gas, &c., Company and, 658
Brighton Gas Company and, 166
South Metropolitan Gas Company and, 163, 597
Cork Gas Company, 431, 539
Cornish Association of Gas Managers, 482
Corporation Profits Tax, 21
Coventry Gas Undertaking, 107, 204
Crieff Price Reduction, 278
Crowborough Gas Company's New Issue, 51
Croydon Gas Company—
Bill, 41
Calorific Power, 710
Price Reduction, 381
Cyanamide, The Action of, 36

Dacosta, M. O., on a Home Made Water Gas Generator, 417, 422
Daily Express Woman's Exhibition—
Cookery Competitions, 103, 333
Gas Exhibits, 147, 263
Daily Mail and Therm Prices (*see* Therm)
Darlington Gas Undertaking, 257
Davis Gas Stove Company's Works, 207, 712
Deal and Walmer Gas Company—
Electricity Powers, 45, 48
Hiring Gas Apparatus, 109
Deal Public Lighting, 48
Deaths—
Anderson, 87
Bone, Mrs. W. A., 418
Canning, John, 370
Jones, C. E., 418, 467
Kapp, Dr. G., 370
M'Millan, Emerson, 22
Nicholson, Joseph, 257
Peattie, W. W., 143
Proctor, George, 87
Reilly, Thomas, 467
Southcott, John, 143
Thomas, A. R., 143
Troughton, Captain J. E., 418
Turner, Frederick, 22
Ward, Lieut.-Col. H. H., 313
Webb, Charles, 87
Wilton, Mrs. E. R., 698
Denton Gas Order, 43, 656
Denver (U.S.A.), Coal Storage Basins at, 368
Derby—
Gas Exhibition at, 597
Reduction in Price of Gas at, 429, 601
Derbyshire Silica Firebrick Company, 212, 331
Devizes Price Reduction, 431
Devonport Gas Prices, 109
Distribution, Mitchell's Patents for High Pressure, 367, 373, 379
Dobb, Mr. T. G., on Coal and Coal Working, 476
Dobrin, Mr. Harry, on—
Flame Temperature of Gases, 588
Gas in Glass Manufacture, 652
Dominion Tar and Chemical Company, 661
Doncaster Corporation Bill, 100
Draycott Gas Company, 381
Drew, Bear, Perks, & Co.'s East Kent Coke Oven Gas Scheme, 367, 373, 379
Driffield Price Reduction, 659
Drighlington Gas Charges and the Rates, 655
Dronfield Gas Light and Coke Company, 656
Dronfield Public Lighting, 659
Dublin Gas Services and the Recent Conflicts, 110, 221
Dudley—
Address on Therms at, 537
Opposition to the Therm at, 599
Dudley Gas Light Company, 330, 599
Dumfries Price Reduction, 221
Dunblane Gas Works, 143
Dundalk Gas Company, 481
Dundee Gas Undertaking, 104, 433
Dunfermline Gas Undertaking, 535
Dungarvan Public Lighting, 221
Durham Gas Order, 274
Dust, Atmospheric, 642
Dykema and Chenoweth, Messrs., on Low Pressure Gasoline Plants, 425
Dysynni Gas Works Purchase Question, 48, 220, 713

Ealing Electricity Undertaking, 371
Earby Gas Works, 87
Earlston (Berwickshire) Gas Company, 109
East Dereham Gas Order, 274
East Grinstead Gas and Water Company, 276
East Hull Gas Order, 109
East Kent Coke Oven Gas Scheme, 367, 373, 379
Eastbourne Gas Company, 429, 535
Eastern Counties Gas Managers' Association, 596
Ebbw Vale Without Gas, 714
Edenbridge and District Gas Company, 104, 598
Edinburgh, Gas Price Reduction in, 108, 713
Education of Gas Engineers, 98
Electrical Contractors, Registration of, 420
Electricity—
Apparatus—
Cost of, 420, 468, 526, 578, 641
Troubles with, 578
As a Labour Saver, 642
Cables, Bitumen Covered, 642
Charges, 419, 420, 697, 699
Cooking by (*see* Cooking)
Development, 143, 206
Domestic, 313
Failures, 206, 485, 658, 714
Financing, 202
Fire Risk and Dangers of, 24, 205, 258, 369, 435, 578
Fused Wires Caused by Lightning, 369
Gas *versus* (*see* Gas)
Heat Accumulator Stove, 88
Heating by Coal *versus*, 144
Industrial, 527
Price and Service Value, 578
Prices Question in Parliament, 162
Producer Gas for Generating, 699
Railway Companies and the Supply of, 103
Storage, 144
Stretford Clause, 88
Supply to Railways, 526
Tariff, The Bi-Part, 258
Trading Schemes, 20
Undertakings—
Division of, 641
Statistics, 314
Water Heating by, 98, 144, 206, 526
Wiring—
Rats and, 642
Rules, 257
Working Classes and, 143
Electricity Supply Act, 24, 102, 142, 205, 258, 371
Ellesmere and the Gas Works Question, 433, 603
Elmsall Gas Works, 214
Elstree Gas Company's Powers, 170
Emsworth Gas Order, 43, 381
Engine, The Brotherhood Crude Oil, 27
Engineering Joint Council, 311
Engineering Trade Dispute, 86, 256, 369
Englehardt, Dr. A., on Benzole Recovery by Means of Active Carbon, 416, 421
European Gas Company, Ltd., 41, 164, 603
Evans and Sutcliffe, Messrs., on Carbonizing in Internally Heated Retorts, 310, 317, 368
Evaporation Tests, 258
Examinations—
Gas Engineering, 264, 323
Gas Fitting, 264, 323
Gas Supply, 264, 323
Exeter Meter Trade, 327
Exhibitions—
Bristol First, 536
British Empire, 416
Daily Express Woman's, 103, 147, 263, 275, 333
Lyons Fair, 578
Mossley Gas, 108
Nation's Food, 110, 589, 714
Walsall Gas, 713
Explosions—
Ammonia Plant, 337
Gas, 49, 432, 661
Exports—
Coal, 22, 203, 204, 466, 698
Coke, 22, 204, 466, 698
Sulphate of Ammonia, 21, 204, 466, 698
Eyemouth Gas Company, 653

Factory and Workshops Report, 83, 105, 154, 202, 205
Fair Wages' Clause, The, 645
Fairweather's, Mr. C. W., Presidential Address to the North British Association of Gas Managers, 573, 576, 580
Falk, Stadelmann, and Co.'s Mantle Factory, Fire at, 661
Falmouth Gas Company, 598
Farnworth and Kearsley Gas Company, 330
Ferndale Gas Order, 274
Fertilizer Outlook, 431
Financing, An Innovation in, 202
Fire Prevention Volumes, 92
Fires at Gas, &c., Works, 109, 598, 603, 661, 712, 714
Fischer, Mr. A., on Coking Tar Pitch, 425
Fischer, Schrader, and Zerbe, Herren, on the Separation of High Calorific Gases from Crude Coal Gas, 594
Fitzgerald and Simon on the Smokeless City, 259, 597
Flame Extinction, Phenomena of, 647
Flame Temperature of Gases, 588
Fleetwood Gas Company, 104
Forfar Gas Price Reduction, 484
Forrières, M., on Coal Preservation, 368, 375
France, Natural Gas in, 643
Freshwater Gas Order, 43
Fuel Economy Committee of the British Association—Fifth Report, 590, 637, 648
Fuel Research Board Report, 639, 654
Fuels—
Liquid, International Congress on, 644
Recent Developments in the Technology of, 317
Fyfe, Mr. Samuel S., on a Large Gas Heating Plant, 160

Gadd, Mr. A., on Broadhead's Axleless Bearings for Gasholders, 21, 28

Gage, Mr. Henry, on the Manufacture and Distribution of Coal Gas, 435
Gainsborough Gas Undertaking, 603
Galashiels Gas Light Company, 110
Gamble, Mr. C. B., on Elevating Coke by Skip Hoist, 214
Garcke's Manual of Electrical Undertakings, 314
Gas—
  And Electricity, Dual Supplies of, 23, 535
  Apparatus Price Reductions, 165
  Bills Press Agitation (*see* Therm)
  Charges—
    Humphrys, Mr. Norton H., on, 701
    Press Agitation (*see* Therm)
  Consumers' Obligation, 142
  Cooking by (*see* Cooking)
  Economy Values, 700
  Efficiencies, 584
  Failure, 714
  Gum and Resin Forming Constituents in Manufactured, 327
  Light Oil Removal from, 370
  Mixtures, Stratification of, 647
  Notes on the Manufacture and Distribution of, 435
  Quality Indicator, 322
  Stocks as Investments, 312
  Unfair Statements in Regard to, 23, 258, 469
  Versus Electricity—
    Comparisons of the Cost of, 714
    For Clock Lighting, 712
    For Cooking, 87, 372, 419, 642
    Wordingham, Mr. C. H., on, 371
Gas Engineering, Gas Supply, and Gas Fitting Examinations, 264, 323
Gas Engineers, The Education of, 98
Gas Light and Coke Company—
  Directorate, 143
  Dividend, 210
  Meter Rents, 217, 275
  Obligations of a Consumer, 142
  Order, 220
  Price Reduction, 217
  Quarterly Official Tests, 43, 163
  Staff Changes, 418, 467, 480
  Stock Prices, 312
  Stove and Meter Department, 480
Gas Lights, Old Time Argument Against, 270
Gas Referees—
  Official Tests, 43, 163
  Prescription with Regard to Testing, 709
Gas Regulation Act—
  Alterations of Declared Calorific Power, 710
  Applications for Orders under the, 43, 100, 104, 218, 274, 330, 381, 429, 480, 534, 598, 656
  Declarations of Calorific Power, 43, 104, 163, 218, 274, 330, 381, 429, 480, 598, 710
  Editorial Comments, 463
  Gas Charges Under the, 330
  Gas Referees Prescriptien for Testing Under the, 709
  Opposition to Orders, 142, 203, 205, 599
  Orders, 43, 104, 163, 218, 274, 330, 381, 429, 480, 534, 656, 710
  Special Orders Under the, 43, 142, 218, 330, 381, 480, 534, 656
  Time Limit Under the, 335
Gas Workers' Wages, 142, 253, 697
Gas Works—
  Descriptions of, 265, 269
  Effluent and River Pollution, 41, 42
  Sale of, 108
Gas World Analysis of Municipal Gas Accounts, 93
Gaseous Fuel, Manufacture, Distribution, and Utilization of, 260
Gases—
  Flame Temperature of, 588
  Separation of High Calorific, from Crude Coal Gas, 594
Gasholders—
  Broadhead's Axleless Bearings for, 21, 28
  Losses from, 144
  Morris Oil Skimmer for, 149
  Waterless, 254, 268
Gasoline Plants, Low Pressure, 425
Gassing Accidents in Industry, 142
Gemmell, Mr. G. H., on the Valuation of Oxides for Gas Purification, 471, 574, 588
German Gas Association Annual Meeting, 155
Germany, Nitrogen Position in, 600
Gibbons (Dudley), Ltd., 110
Gibson's Meter for Registering Cubic Feet and Indicating Therms, 327
Gifford, Mr. H. J., on the Roberts' Patent Coke Ovens, 315
Gill's, Mr. G. M., Review of Mr. G. F. Zimmer's Book on the Mechanical Handling and Storing of Material, 316
Glasgow Gas Undertaking—
  Annual Report, 333
  Chemical Works, 107, 484
  Maintenance of Appliances, 43
Glasgow Housing Scheme, Smokeless Methods in, 320
Glass Manufacture, Gas in, 652
Glassware, Imported, 37, 162, 216
Glover-West Vertical Retort Installation at the Vale of Leven Gas Works, 269
Glyncorrwg Gas Order, 218
Golborne Gas Company, 429
Goodwin, Capt. C. J., on the Hausser Explosion Process of Nitric Acid Synthesis, 706
Goole Gas Price Reduction, 712
Graefe, Dr. E., on a Lignite Tar Distillation System, 316
Grand Rapids Gas Works, Thin Metal Standpipes at, 315
Grangemouth Gas Deficit, 327
Grantham Gas Company, 432
Grebel, M. A., on A New Gas Quality Indicator, 322
Greenock Gas Order, 43
Greenwood and Hodsman, Messrs., on Factors Influencing the Ammonia Yield in the Carbonization of Coal, 522, 527, 595
Gregory, M. P., on the Rincker Processes of Complete Gasification and Carburation, 473, 597
Guiseley and Gas Examination, 603
Gum and Resin Forming Constituents in Manufactured Gas, 327

Haber Bosch Synthetic Nitric Acid Process, 315
Hackney Electricity Undertaking, 20, 24
Haggard and Henderson, Messrs., on Contamination of Air with Carbon Monoxide, 376
Halesowen Gas Order, 104, 480
Halifax Price Reduction, 598
Hamilton Gas Works, 370
Hampton Court Gas Company, 431, 485
Harker, Dr. J. A., on Nitrogen Fixation, 705
Harpenden Gas Company, 380
Harrogate Price Reduction, 48
Harrow and Stanmore Gas Company, 479, 599
Hartlepool, Price of Gas at, 220, 381
Hartog, Mr. J. H., on Salesmanship, 313
Harwich Gas Company, 43, 713
Haslemere Gas Order, 43
Hastings, Cost of Gas and Electricity at, 714
Hastings and St. Leonards Gas Company, 165, 599
Hathersage and District Gas Company, 525, 539
Häusser Synthetic Nitric Acid Process, 315, 706
Hawick Gas Light Company, 333
Hayling Island Gas Company, 598
Haynes, Mr. P. E., on Stratification of Gas Mixtures, 647
Heat Penetration Tables, Settle's, 21
Heaters, Immersion, 525
Heating Plant, A Large Gas, 160
Heating Water by Electricity (*see* Electricity)
Hebden Bridge and Mytholmroyd Gas Board, 659, 711
Hemsworth Gas Prices, 166
Henderson and Haggard, Messrs., on Contamination of Air with Carbon Monoxide, 376
Henry and Prince, Messrs., on Volume Loss by Light Oil Removal, 370
Hereford Gas Undertaking, 166
Heywood Gas Undertaking, 219
Hill, Dr. Leonard, on the Value of Clean, Fresh Air, 321
Hinckley Gas Undertaking, 47
Hoadley, Mr., on Water Heating by Electricity, 88
Hodsman and Greenwood, Messrs., on Factors Influencing the Ammonia Yield in the Carbonization of Coal, 522, 527, 595
Hodson, Mr. H. V., on the Determination of Small Quantities of Silica in Thorium Nitrate, 425
Holytown Gas Works, 485
Hood, Mr. O. P., on Spontaneous Combustion of Coal, 376
Horley Gas Company, 218, 534, 658
Hornsey Gas Company, 275
Horseley Bridge and Engineering Company, 48
Horsham Gas Order, 43
Householder's Liability for Gas Bills, 103
Housing Schemes—
  Elaborate, 313
  Electricity Charges, 526
  Smokeless Methods in, 320
Huddersfield Gas Undertaking and the Therm System, 214
Humphrys, Mr. Norton H., on the Charges for Gas, 701
Hydrocarbons, The Non-Benzenoid, 145

Ilkley Gas Order, 163, 274
Illingworth, Mr. S. Roy, on Low Temperature Carbonization, 26
Illingworth Carbonization Company, 220
Immersion Heaters, 525
Imperial Continental Gas Association—
  German Claims Award, 709
  Some Historical Notes, 430
Incandescent Gas Ovens, 109
Income Tax, A Scottish Gas Works and, 42
Income Tax Tables, 372
Increases in Price of Gas, 107
Industrial Applications of Gas—
  Annealing Telescope Discs, 34
  Birmingham Gas Department Research Laboratories, 480
  Drying Barrels, 214
  Glass Manufacture, 652
  Motor Repair Work, 655
  Telephone Apparatus Making, 527
Institute of Paint and Varnish Technologists, 589
Institution of Chemical Engineers, 596
Institution of Civil Engineers, Joint Engineering Council, 311
Institution of Gas Engineers—
  Corbet-Woodall Scholarship, 87, 142
  Council Meeting Report, 643
  Education of Gas Engineers, 640
  Engineering Joint Council Representation, 640
Institution of Gas Engineers (*continued*)—
  Gas Engineering, Gas Supply, and Gas Fitting Examinations Results, 264
  Gas Research Fellowship, 87
  Life of Gas Meters Report, 27, 97, 160, 214
Insurance, Unemployment, 204
Inverness Gas Undertaking, 710
Investigators, Training, 639
Ipswich Gas Company, 534
Irish Gas Undertakings, 431
Iron, Increased Production of, 418
Iron and Steel Institute, 258, 646
Isle of Wight Gas Association, 91

Jedburgh Price Reduction, 278
Johannesburg Municipal Gas Works, 577

Keighley Gas Undertaking, 257
Keillor, Mr. G. W., on Gas Efficiencies, 584
Keillor, Mr. John, on the Gas Industry in Canada, 84, 92
Keith, Gas Question at, 661
Kendal Gas Department, 169
Kenilworth Gas Company, 104
Kennoway and Windygates Gas Company, 712
Kettles, Immersion, 314
Kidderminster Gas Company, 485
Killamarsh Gas Order, 429
King, Mr. Thomson, on Immersion Heaters, 525
King, Walter, Ltd., 22
Kirkburton Gas Order, 104
Kirkcaldy Price Reduction, 221
Kirkcudbright Gas Supply, 334
Kirkham Gas Company, 170, 485, 601
Kirkintilloch Gas Undertaking, 221, 370
Kirkwell Gas Works Sold, 108
Knottingley Gas Company, 330
Kobe Gas Works, Tully Plant for, 712
Koch, Mr. Felix J., on Long Distance Main Protection, 376
Koppers Ovens at Clairton, 698

Labour Movement, National Joint Council of the, 645
Labour Questions—
  Editorial Comments, 524
  Engineering Trade Dispute, 256
  Fair Wages Clause, 645
  Gas Workers' Wages, 142, 253, 697
  Industrial Disputes and Losses, 313
  Macassey, Sir Lynden, on, 321
  Meter Makers' Wages, 603
  Miners' Wages, 524
  Trade Unionism Depression, 524, 575
Lamps, Cost of Electric, 641
Lanarkshire, Gas Works Acquisition in, 334
Lancaster Gas Undertaking, 45
Lander, Dr. C. H., on Economic Steam Production, 640, 651
Langley Mill and Heanor Calorific Power, 656
Largo and Lundin Links Gas Company and Income Tax, 42, 712
Launceston Gas Order, 43, 710
Leamington Priors Gas Company's Advice to Consumers, 327
Leamington Public Lighting, 435, 481
Leatherhead Gas and Lighting Company, 484
Lectures and Demonstrations for Popularizing Gas, 255
Leeds Gas Prices, 485, 601
Leeds University—
  Corbet-Woodall Scholarship, 87, 142
  Examination Results, 143
  Gas Research Fellowship, 87
Leek Electricity Undertaking, 699
Leek Gas Undertaking, 485
Leicester Corporation Gas Order, 330, 381
Leigh (Lancs.) Gas Department, 276
Lewes Gas Company, 218, 710, 714
Lichfield Public Lighting, 432
Light, Action of, on the Human Body, 210
Lighting—
  Effect of, on Output, 370
  Factory and Workshop, 83, 105, 205
  Schools, 334
  Shop Interiors, 214
  Shop Window, 474
Limerick Gas Works, 431
Liquids, the Pumping of Hot, 369, 374
Liquor, Disposal of Spent, 213
Lisburn Gas Undertaking, 108
Littleborough Calorific Power, 218
Liverpool, Gas Fatality at, 432
Liverpool Gas Prices, 335
Llandrindod Wells Gas Lighting Load, 258
Llandudno Gas Undertaking, 331, 538
Llynvi Valley Gas Company, 480
Locomotive, A Model, Made from Gas Appliances, 262
London—
  Gas Company Tests, 163
  Meter Rents in the City, 275
London County Council—
  Gas and Steam Cooking Equipment of the New Hall, 206
  Gas Bill Agitation, 417
  Gas Light and Coke Company's Order, 220
  School Lighting by Gas, 334
Long Eaton Gas Company, 381
Losles Gas Economy Valves, 700
Low Temperature Carbonization, Ltd., 104, 714

Lowe's Plant for the Manufacture of Blue Water Gas in Conjunction with Coal Gas, 311, 324, 477
Luton Gas Company—
  Price Reduction, 656
  Town Council and the, 47, 431, 656
  Visit of the Southern Association to the Works, 208
Lyons Fair, 578
Lytham Price Reduction, 601
Lytham St. Annes Gas Supply, 47, 107

M'Bride, Mr. R. S., on Gas Sales per Head in America, 36
Macassey, Sir Lynden, on Labour Policy, 321
Machinery Rating Bill, 21
Machynlleth Gas Consumers and the Price of Gas, 280
Machynlleth Public Lighting, 533
Maidstone Gas Company, 280
Mallet, M. P., on Catalytic Cracking of Heavy Petroleum Oils, 475
Malta and Mediterranean Gas Company, 143
Malton Gas Company, 370, 525
Manchester and District Junior Gas Association—
  Visits—
    Derbyshire Silica Firebrick Works, 212
    Wigan Coal and Iron Company's Pit, 476, 589
Manchester District Institution of Gas Engineers—
  General Business, 703, 704
  Visits—
    Bryan Donkin Company's Works, 704
    Chesterfield Gas Undertaking, 703, 704
    Stanton Iron Works, 705
Manchester Gas Undertaking—
  Annual Report, 331
  Exhibit at the Housing and Health Exhibition, 208
  Price Reduction, 483
Manchester Geological and Mining Society, 530
Mansfield Gas Undertaking, 221
Mantles—
  Bradford Complaint in Regard to German, 485
  German Witnesses at the Inquiry, 40
  Taxation of Imported, 40, 165, 273, 330
Manufacture of Gas, Peat for, 423
Marriages, 147
Maryborough (Queensland) Gas and Coke Company, 712
Maryport Gas Undertaking, 280
Mason, Mr. W., on Pumping Hot Liquids, 369, 374
Mathot, M. R. E., on a Suction Gas Tractor, 707
Matlock Gas Company—
  Calorific Power, 163
  Price Reduction, 43
Maxted, Dr. E. B., on Water Power and Nitrogen Fixation, 707
Mechanical Handling and Storing of Material, 316
Melbourne Metropolitan Gas Company, 280
Melton Mowbray Gas Company, 533
Meter—
  A New Swedish, 35
  Accounts made out by, 155
  For Registering Cubic Feet and Indicating Therms, 327
  Rents, The Gas Light and Coke Company and, 217, 275
  Repairs, Shellac and Resin Mixtures for, 270
  Thomas, 210
Meters—
  Indicating Therms, 465
  Institution of Gas Engineers' Report on the Life of, 97, 160, 214
  Prepayment—
    Inserting Discs instead of Cash in, 435
    Thefts from, 42, 109, 162, 433, 603, 659
  Three Light or Five Light, 372
Meyers, Mr. W. M., on Cause and Prevention of Deterioration of Portland Cement, 470
Mid Kent Gas Light and Coke Company, 656
Middlewich Gas Order, 274
Midland Coal Products Works, 484
Millar's "Bodmin" Tar and Bituminous Macadam Plant, 267
Milnrow Gas Company, 429
Milton Regis Gas Order, 218, 534
Milton Regis Price Reduction, 603
Mitchell's Patent Governors, 367, 373, 379
Model Gas Bill, The, 523
Montrose Gas Company, 435
Morley Gas Undertaking, 221
Morpeth Gas Company, 477
Morris Oil Skimmer, 149
Mossley Gas Exhibition, 108
Motor Fuel, Alcohol as a, 321
Motor Repair Work, Gas for, 655
Murdoch's House Destroyed by Fire, 170
Myhill, Mr. A. R., on the Function of Pure Science in the Field of Industry, 593

N and Z Transmitting Thermometer, 94
Naphthalene as Fuel, 418
National Association of Technical Gas Officials, 85, 97
National Federation of General Workers, 415
National Gas Council—
  Central Executive Board Meetings, 145, 643
  Cooker Specification, 19, 30, 84, 94, 141, 156, 203, 211, 309, 576
  Editorial Comments, 19, 84, 309
  Therm Charges Agitation, 309, 314
National Physical Laboratory—
  Annual Inspection, 24
  Collected Researches, 372
Nation's Food Exhibition, 110, 589, 714
Natural Gas—
  A Distinctive Odour for, 422
  French Fields, 643
  In the United States, 142, 143, 149, 372
Nauss, Dr., on Ammonia Output and Steaming of Horizontals, 645
Neath Corporation Bill, 100
Neath Gas Undertaking, 109, 327
Nenagh Gas and Electricity Supply, 541
New Coldstream Gas Company, 653
New Hedon Gas and Coke Company, 163
New Inverted Incandescent Gas Lamp Company's New Burners, 27
Newbury Gas Undertaking, 334, 429
Newcastle and Gateshead Gas Company, 273, 370, 467, 710
Newcastle (Staffs.) Gas and Electricity Undertaking, 330, 431
Newcastle-under-Lyme Electricity Undertaking, 314
Newcastle-under-Lyme Gas Order, 274
Newport (I. of W.) Gas Company, 87
Newport (Mon.) Price Reduction, 601
Newport (Salop) Gas Works Purchase Scheme, 170
Newport Pagnell Gas and Coke Company, 656, 710
Newry Gas Works, 485
Newton Gas Supply, 110
Nitric Acid, Synthetic, 315
Nitrogen Papers at the British Association Meeting, 705
Nitrogen Position in Germany, 600, 697
North British Association of Gas Managers—
  Annual Report, 469
  Editorial Comments, 573, 574
  Gas Efficiencies—Discussion on Messrs. Keillor's and Richmond's Papers on, 584
  Gemmell, Mr. G. H., on the Valuation of Oxides for Gas Purification, 471, 574, 588
  General Business, 580, 588
  Presidential Address of Mr. C. W. Fairweather, 573, 586
North Middlesex Gas Company's Price, 275, 483
North of England Gas Managers' Association, 652
Northallerton Consumers' Gas Company, 535
Northfleet and Greenhithe Gas Order, 274
Norway, Gas Undertakings in, 700
Nottingham and the Therm Basis, 435, 480, 481, 537
Nottingham Gas Works Inspection, 711

Official Changes—
  Bloodworth, H., 22
  Broadbent, B., 698
  Brown, T. H., 525
  Chadderton, Fred, 467
  Dally, Ronald, 525
  Dougall, Archibald, 22
  Foot, R. W., 418
  Frost, Eli, 525, 698
  Gill, G. M., 257
  Gray, Robert, 370
  Harrison, J. A., 577
  Hunter, R. W., 467
  Ingram, S. J., 525
  Jenkins, Rees, 204
  Jones, A., 698
  Law, Thomas, 370
  Lindsay, C. J., 641
  Pickles, Harold, 257
  Ponsford, E. L., 313
  Price, W. E., 467
  Rose, Jesse, 22
  Smith, Harold C., 22
  Southcroft, Maurice, 143
  Stewart, E. G., 418
  Taylor, R. C., 87
  Tobey, Henry, 370, 525
  Townsend, Frank, 87
  Whitney, A. C., 313
  Wrigley, A., 525
Oil—
  Home Production of, 640, 651
  Prices, 88, 312
  Skimmer, The Morris, 149
  Volume Loss by Removal of Light, 370
Oils, Catalytic Cracking of Heavy Petroleum, 465, 475
Oldbury Gas Undertaking—
  Alleged Theft of Gas from, 42
  Glover West Vertical Retort Installation, 333
  Metal Discs in a Prepayment Meter, 162
Oliver and Boyd's Income Tax Tables, 372
Organization in the Gas Industry, Comparison of American and British, 573, 579
Ossett Gas Undertaking, 165
Oswaldtwistle Gas Undertaking, 47, 538
Oswestry Gas Company, 104
Owens, Dr. J. S., on Atmospheric Dust, 642
Oxford Gas Light and Coke Company, 600
Oxide of Iron—
  Carrying Bases for, 323
  Spent, 139
  Sulphur Recovery from 524
Oxides, Valuation of, for Gas Purification, 471, 574, 588

Paington Gas Official Assaulted, 713
Paiton, M., on Recovery of Heat in Coke Cooling, 700
Parkinson Stove Company, 257
Parrish, Mr. P., on Ammoniacal Liquor Stills, 89, 140
Parsons', Mr. F. W., Plans for a Smokeless City, 374
Peat Conversion into Steam and Gas, 423
Pendant, A Faulty, 600
Personal—
  Bell, J. Ferguson, 142
  Bezant, Arthur F., 22
  Bottoms, T. W., 143
  Brereton, Mrs. M. A. Cloudesley, 641
  Brooks, Mr. and Mrs. A. E., 525
  Browne, Bernard F., 257
  Campbell, A. F., 142
  Carpenter, Dr. Charles, 370
  Clarry, Miss Marjorie H., 204
  Colquhoun, Dr. James, 467
  Coward, William, 418
  Cundiff, William, 467
  Dewar, Sir James, 698
  Gibb, D. M'C., 257
  Glover, Col. W. R., 577
  Goodwin, Sir George, 467
  Grant, Alexander G., 142
  Guilmant, A. L., 143
  Guthrie, S. Maule, 22
  Hall, William H. B., 87
  Hartley, Harold B., 143
  Heard, C., 641
  Hele-Shaw, Prof. H. S., 467
  Hood, O. P., 370
  Hunter, R. W., 467
  Ibbotson, H. J., 577
  King, G., 467
  King, Walter Rupert, 22
  Korting, Ernest, 142
  O'Shaughnessy, F. R., 467
  Pexton, Stuart, 87
  Randall, James T., 525
  Shapley, C. S., 525
  Swallow, G. L., 370, 467
  Thorp, Franklin, 257
  Tobey, Mr. and Mrs. Henry, 525
  Waldo, Dr., 525
  Warren, L. J., 142
  Wilson, R. W., 313
  Woodall, Lieut.-Col. Harold W., 87
Perth Gas Price Reduction, 337
Peterborough City Council and Therm Rates, 661
Peterborough Gas Order, 330, 429, 661
Peterhead Gas Undertaking, 381
Peters, Dr. Fritz, on Crude Tar Phenols as Wood Preservative, 420
Philadelphia, A Tar Dehydration Plant in, 262
Pifco Specialities, 539
Pipes—
  Dimensions for Malleable Iron Fittings, 206
  Durability of Wooden Gas, 374
  Protection of Long Distance, 376
Pitlochry Gas Company, 220
Plymouth and Stonehouse Gas Company, 109, 712
Plymouth Corporation Gas Order, 656
Pontypool Gas and Water Company, 163
Pontypridd Gas Order, 381
Poplar Electricity Undertaking, 258
Portishead Calorific Power, 43
Portsea Island Gas Light Company, 380, 429
Powell, Mr. A. R., on Desulphurizing Coke, 93
Preston Gas Company's Exhibits, 603
Prince and Henry, Messrs., on Volume Loss by Light Oil Removal, 370
Public Utilities Companies (Capital Issues) Act, Applications under the, 162, 216
Public Utility Undertakings, Valuation and Rating of, 273
Publicity and Public Lectures and Demonstrations, 255
Pudsey Coal Gas Company, 710
Purchase Questions—
  Bridlington, 536
  Dysynni, 48, 220, 713
  Holytown, 485
  Newport (Salop), 170
  Stretford, 484
Purification—
  Chamberlain, Mr. H., on, 315
  Valuation of Oxides for 471, 574, 588

Quorndon and Mountsorrel Gas Order, 429 (2)

Radiation's Price Reductions, 165
Railway Companies and Electricity Supply, 103
Railway Rates, 86, 141
Railway Wagons, Privately Owned, 429
Ramsgate Corporation Bill, 100
Redcar, Meter Hire Charges at, 108
Reductions in Price, 42, 43, 45 (2), 48, 106, 108, 109 (2), 110, 160, 165, 166, 170 (3), 217, 219 (3), 220 (2), 221 (2), 253, 273, 274 (2), 275, 278 (3), 333, 337, 379, 381 (2), 426, 429, 431, 432, 435, 483 (3), 484, 485, 598, 600, 601 (3), 656, 657, 659 (2), 712 (4), 713
Regenerative Coal Gasification System, Ltd., 109
Reigate Prepayment Consumers and a Price Increase, 42
Research Work—
  Birmingham Gas Undertaking and, 480
  Cast Iron, 647
  Fuel Board Report, 639, 654
  Gas Asphyxiation, 29
  Gas Fellowship at Leeds University, 87
  National Physical Laboratory, 372
  Training Investigators, 639

Retford—
Combined Gas and Electricity Scheme for, 535
Gas Profits, 600
Retorts—
Ammonia Output and Steaming of Horizontals, 645
Vertical, Glover-West, at the Vale of Leven Gas Company's Works, 269
Rhondda Gas Order, 104
Richmond Light Manufacturing Company, 163
Richmond, Mr. J., on Gas Efficiencies, 584
Richmond (Surrey) Gas Company, 657
Richmond (Yorks.) Gas Order, 656
Rincker Processes of Complete Gasification and Carburation, 473, 597
Ripley Gas Company, 43, 710
Ripon Gas Order, 274
River Pollution, Gas Works and, 42, 42
Rivière, M., on An Ash Fusion Producer, 424
Robb's, Mr. James, Presidential Address to the Wales and Monmouthshire Institution, 23, 36
Roberts, Mr. John, on Blending in Low Temperature Carbonization, 27
Roberts' Patent Coke Ovens, 315
Rochester, Chatham, and Gillingham Gas Company, 661
Rock Light Burner, 467
Romford Gas and Coke Company, 481
Rossendale Gas Company, 432
Rowley Regis and Blackheath Gas Order, 163, 429
Rubber, Use of Carbon Black in, 531
Ryde Gas Light Company, 381

St. Anne's on Sea Gas Order, 104
St. Austell Gas Company, 534 (2), 601
Safeguarding of Industries Act—
Gas Industry and the, 37, 40
Glass Mantles and Glassware and, 37, 40
Salesmanship, 313, 699
Salesmen's Conferences, 270
Salford Gas Undertaking, 657
San Francisco, Storage Capacity at, 316
Sandbach Gas Company, 429
Sandown Gas Order, 274
Sanitary Inspectors' Association, 656
Sanitary Institute Congress—
Cobb, Prof. John W., on Gaseous Fuel, 260
Hill, Dr. Leonard, on the Value of Clear Fresh Air, 321
Smith, Mr. W. B., on Smokeless Methods in Glasgow Housing Schemes, 320
Visit to the Bournemouth Gas and Water Company's Works, 265
Wordingham, Mr. C. H., on Gas and Electricity, 371
Schalek, Mr. J. H., on Shellac and Resin Mixtures for Meter Repairs, 270
Schmolke, Herr A., on Determining the Specific Gravity of Coke, 593
School Lighting by Gas, 334
Schrader, Fischer, and Zerbe, Herren, on the Separation of High Calorific Gases from Crude Coal Gas, 594
Science in Industry, 593
Seaford Price Reduction, 106
Seaham Gas Order, 104
Searles-Wood, Mr. H. D., on Gas and the Smoke Problem, 656
Sedbergh Gas Order, 274
Segundo, Mr. Ed. C. de, on Calorific Value Declared and Received, 577
Selby Price Reduction, 485
Settle Gas Company, 598
Settle's Heat Penetration Tables, 21
Service Cleaning, Compressor Outfit for, 97
Sevenoaks Gas Company, 163
Sewage, Gas from, 661
Shares and Stocks, New Issues of, 51, 276, 597, 661, 713
Sheffield Electricity Undertaking and Local Contractors, 700
Sheffield Gas Company—
Nominee Directors' Report, 657
Official Change, 204
Reduction in Price, 219
Shellac and Resin Mixtures for Meter Repairs, 270
Shipley Gas Works Results, 332
Shop Window Lighting, 474
Shrewsbury Gas Light Company, 381, 485, 534
Simon and Fitzgerald on The Smokeless City, 259, 597
Sinnatt, Mr. F. S., on Structure of Coal Seams, 530
Sir John Cass Technical Institute, 541
Skifco Ball Bearing Company, Ltd., 48
Skip Hoist for Elevating Coke, 214
Sligo Gasholder Sniped, 658
Smethwick Gas Undertaking, 166, 220, 480, 482
Smith, Mr. G. O., on the American Coal Situation, 531
Smith, Mr. W. B., on Smokeless Methods in Glasgow Housing Schemes, 320
Smithells, Prof., on the Therm, 695, 709
Smoke Abatement—
Armstrong, Prof. H. E., on, 576
Bill, 86, 202, 217, 254, 523, 640
Conferences, 273
Editorial Comments, 254
Gas and, 656
Glasgow Housing Schemes and, 320
Plans for a Smokeless City, 374
Simon, Mr. E. D., and Miss M. Fitzgerald on, 259, 597
Smokeless City, The, 259, 597
Smokeless Fuel, Large Scale Production of, 317
Société Technique du Gaz—
Bonnet, M. Ed., on a Waterless Gasholder, 268
Caussé, M., on the Phenomena of Flame Extinction, 647
Dacosta, M. O., on A Home Made Water Gas Generator and Carburetting Device, 417, 422
Editorial Comments, 465
Forrières, M., on Coal Preservation, 368, 375
Grebel, M. A., on A New Quality Gas Indicator, 322
Gregory, M. P., on the Rincker Processes of Complete Gasification and Carburation, 473, 597
Mallet, M. P., on Catalytic Cracking of Heavy Petroleum Oils, 465, 475
Paiton, M., on Recovery of Heat in Coke Cooling, 700
Rivière, M., on An Ash-Fusion Producer, 424
Therm Basis Question, 376
Vigreux, M. G., on Automatically Controlled Water Gas Production, 531
Society of British Gas Industries—
Date of Autumn Meeting, 596
Life of Gas Meters Joint Committee, 577
New Rules and List of Members, 91
Society of Chemical Industry—
Greenwood and Hodsman, Messrs., on Factors Influencing the Ammonia Yield in the Carbonization of Coal, 522, 527, 595
Hodson, Mr. H. V., on Determination of Small Quantities of Silica in Thorium Nitrate, 425
Messel Memorial Lecture by Prof. H. E. Armstrong, 89
Parrish, Mr. P., on Ammoniacal Liquor Stills, 89, 140
Presidential Address of Dr. Ruttan, 89
Walmsley Mr. W. A., on Tar Distilling, 209
Society of Engineers, 644
Solihull Gas Company, 170
South African Lighting Association, 44
South Australian Gas Company, 711
South Elmsall Gas Order, 381
South Metropolitan Gas Company—
Co-Partnership, 163, 597
Dividend, 210
Engineership, 257
Official Tests, 163
Price Reduction, 217, 275
Removing Oil Storage Tanks, 154
Visit of the Society of Engineers to the East Greenwich Works, 644
War Memorial Clock Lighting, 712
South Shields Price Reduction, 274
South Staffordshire Mond Gas Company's Works, 661
South Suburban Gas Company, 163, 435
South Wales Electrical Power Distribution Company Bill, 41, 100
South Wales Institute of Engineers—
Illingworth, Mr. S. Roy, on Low Temperature Carbonization, 26
Roberts, Mr. John, on Blending in Low Temperature Carbonization, 27
Sutcliffe and Evans, Messrs., on Carbonizing in Internally Heated Retorts, 310, 317, 368
Southern Association of Gas Engineers and Managers—
Editorial Comments, 201
Visits—
Davis Gas Stove Company's Works, 207
Luton Gas Works, 208
Spalding Gas Profits, 170
Specification of Standardized Gas Cookers, 19, 30, 84, 94, 141, 156, 203, 211, 576
Spencer Bonecourt Waste Heat Boilers, 277
Spontaneous Combustion, Avoiding, 22, 160
Sprinzl's, Herr, Device for Making out Accounts by Meter, 155
Stand Pipes, Thin Metal, 315
Stanton Coal and Iron Company, 576
Stanton Iron Works Company, 705
Staveley Coal and Iron Company, Ltd., 530, 646
Staveley Gas Light and Coke Company, 710
Stealing Gas, Charges of, 42
Steam Production Discussion at the British Association Meeting, 651
Stirling Gas Light Company, 219, 221, 484
Stockport Gas Undertaking, 603
Stockton-on-Tees Gas Order, 381
Stockton, Price of Gas for Power at, 107
Stoke-on-Trent Gas Undertaking—
Centralization Scheme, 334
Report and Accounts, 46
Transfer of the Etruria Works, 46
Stothert and Pitt's Rotary Pumps, 484
Strabane Gas Undertaking, 218, 467
Strache Process of Complete Gasification, 702
Stratford-on-Avon Gas Profit, 220
Stratification of Gas Mixtures, 647
Stretford Gas Works Transfer, 484
Strikes—
American Miners, 369
Burnley Gas Workers, 337
Stourbridge Gas Department, 167
Suffocation by Gas—
American Statistics, 659
Cases of, 169, 381, 432, 600, 603, 658
Research Work on, 29
While Rifling a Meter, 603
Sugg & Co.'s Lamps, 712
Sulphate of Ammonia—
Economics of the Production of, 89, 140
Exports, 21, 204, 466, 698
Prices, 369, 381
Sulphur *v.* Pyrites, 524, 640
Sulphuric Acid Prices, 466
Summer Time Bill, 86, 142, 204, 589
Summers, Mr. A. Leonard, on Anthracite, 530
Sunderland Gas Company, 219
Sunderland, Electric Light Failure at, 714
Sutcliffe and Evans, Messrs., on Carbonizing in Internally Heated Retorts, 310, 317, 368
Sutton Gas Company, 143, 483
Sutton-in-Ashfield Price Reduction, 659
Swadlincote Gas Undertaking, 431
Swansea Housing Scheme and Electricity Charges, 526
Swansea Price Reduction, 600
Swindon United Gas Company's Order, 274, 330

T.N.T., Production during the War, 86
Tadcaster and Wetherby Gas Order, 381
Tar—
And Bituminous Macadam Plant, 267
Dehydration Plant in Philadelphia, 262
Distilling, Mr. W. A. Walmsley on, 203, 209
Phenols as Wood Preservative, 420
Pitch, Coking, 425
Treated Roads—
Effect of, on Fisheries, 312
Specification for, 640
Water Gas, 418
Wilton's Continuous Distillation Process, 203, 209, 262
Tarbitumac, Ltd., 600
Taunton Gas Light and Coke Company, 481
Tavistock Gas Order, 104
Tawe Valley Gas Company, 330
Technical Gas Officials, National Association of, 85, 97
Teignmouth Gas Supply, 45, 278
Telephone Apparatus Making, Gas for, 527
Telescope Discs, Annealing, 34
Therm (*see also* Gas Regulation Act)—
Basis—
Equity of the, 270, 537
Humphrys, Mr. Norton H., on, 701
Opposition to the, 142, 203, 205, 599
Advantages of the, 658
Editorial Comments, 201
Education, 201, 270
Electricians and the, 599
Low-Temperature Carbonization and the, 463, 475
Meters for Registering the, 465
Prices—
Editorial Comments, 253, 254, 309, 368, 415, 521, 695
Press Agitation, 201, 254, 309, 327, 368, 369, 377, 415, 426, 468, 521, 533, 537, 538, 577, 710, 711
Question in Parliament, 330
Suggested Inquiry, 309, 314, 695
Principle of the, 477
Segundo, Mr. Ed. C. de, on the, 577
Smithells, Prof., on the, 695, 709
Société Technique and the, 376
Thermometer, The N and Z Transmitting, 94
Thomas, Douglas, & Co., 163, 334
Thomas Gas Meter and Recording Calorimeter, 210
Thorium Nitrate, Determination of Small Quantities of Silica in, 425
Thornaby-on-Tees Corporation and the Therm Question, 661
Thorncliffe Coal Distillation, 657
Thorne Gas Company, 170
Thornton Gas Undertaking, 485
Thornycroft Suction Gas Lorry, 147
Thurles Public Lighting, 603
Tipperary Gas Works, 110, 431, 485
Tipton Gas Undertaking, 45, 104
Tiverton Price Reduction, 278
Tonbridge Gas Company, 534
Tong, Rate Dispute at, 655
Toronto Consumers' Gas Company, 535
Tottenham Light, Heat, and Power Company—
Dividends, 280
Engineership, 22
Tractor, A Suction Gas, 707
Trade Notes, 48, 109, 277, 484, 539, 712
Trade Press and the Public, 377
Trade Unionism Depression, 524, 575
Traneus, Mr. B., on A New Gas Meter, 35
Truro Gas Company, 525
Truth on the Gas Bills Controversy, 538
Turriff Gas Company, 485
Tyldesley with Shakerley Gas Undertaking, 539
Tynemouth Price Reduction, 603

Unemployment Statistics, 524
Uppingham Gas Light and Coke Company, 221
Uttoxeter Gas Order, 382, 429, 435
Uxbridge Gas Company, 274

Vale of Leven Gas Company's Glover-West Vertical Retort Installation, 269
Valves, "Losles" Economy, 700
Vancouver, Glover-West Verticals at, 84, 92
Victoria (B.C.) Vertical Retort Installation, 92
Vignoles, Mr. W. A., on Electricity for Domestic Loads, 23
Vigreux, M. G., on Automatically Controlled Water Gas Production, 531
Vincent Northcote Company, 220

Wakefield Price Reduction, 426
Wales, A Junior Gas Association for, 26
Wales and Monmouthshire District Institution of Gas Engineers, 36
Walker and Wallsend Union Gas Company, 429
Wallasey Gas Undertaking, 41
Walmsley, Mr. W. A., on Tar Distilling, 209
Walney Island Gas and Water Supply, 485
Walsall Gas Exhibition, 713
Wandsworth, Wimbledon, and Epsom Gas Company—
  Death of the Captain of the "Wandle," 432
  Dividend, 280
  Editorial Comments, 253
  Price Reduction, 253, 275
Warminster Gas Order, 43 (2)
Warner, Mr. A. W., on a Continuous Tar Dehydrating Plant, 262
Warrington Gas Undertaking, 483
Water Gas Generator and Carburetting Device, A Home Made, 422
Water Gas Manufacture—
  Automatically Controlled, 531
  In Conjunction with Coal Gas, 311, 324, 477
Water Heating by Electricity, 88, 144, 206
Wath and District Gas Board, 330
Watherton and Co., 435
Wehrle, Mr. George, on a Compressor Outfit for Service Cleaning, 97
Wellingborough Gas Company, 484
Wellington (N.Z.) Gas Company, 22
Wellington (Salop) Council and the Gas Company, 332
Wellington (Somerset) Gas Company, 163
Wellington Tube Works, Ltd., 109
Wells Gas Order, 656
Welsbach Light Company, 276, 332, 536
West, Alderman Fred J., on American Gas Industry Organization Compared with British Methods, 573, 579
West, Mr. J. H., on Nitrogen Manufacture, 706
West Bromwich Gas Undertaking, 332
Westbury Gas and Coke Company, 143
Westhoughton Gas Order, 330
Westminster Technical Institute, 713
Weymouth Gas Company, 484
Weymouth, Gas Explosion at, 432
Whaley Bridge, Stealing from a Slot Meter at, 659
Wharfedale, Complaints and Economies at, 484
Whetstone Gas Works, 698
Wick Price Reduction, 221
Wigan Coal and Iron Company, 476, 589
Williams, Mr. J. E., on Avoiding Spontaneous Combustion, 22
Williams, Mr. R. G., on Industry and Electrical Power, 527
Williams's, Mr. E. C., Review of Dr. B. T. Brooks' Book on Non-Benzenoid Hydrocarbons, 145
Wills, 26, 87, 149, 206, 256, 420, 531, 596, 640, 707
Wilton's Continuous Tar Distillation Process, 203, 209, 262
Wimborne Minster Calorific Power, 656
Winchester Water and Gas Company, 482
Windsor Gas Company—
  Bill, 100
  Calorific Power, 274
Wisbech Lighting Company, 539
Witney Calorific Power, 43
Woking District Gas Company, 479
Wolle, Mr. G. H., on the Benner Coal Gas Process, 87
Wolverhampton Gas Company, 483, 698
Woman's Exhibition (*see* Daily Express)
Wood, Mr. G. H., on Water Heating by Electricity, 144, 206
Woodall, Corbet, Scholarship, 87, 142
Woollenweber, Dr. W., on Carbonizing and Other Economies, 466
Wordingham, Mr. C. H., on Gas and Electricity, 371
Worthing Corporation Bill, 41
Worthing Gas Company, 483
Wrexham, Alleged Gas Meter Fraud at, 435

Yeovil Calorific Power, 104
York Gas Company—
  Cookery Competition, 221
  Official Change, 698
  Prices of Gas and Coke, 278
Yorktown and Blackwater Gas Company, 480

Zerbe, Fischer, and Schrader, Herren, on the Separation of High Calorific Gases from Crude Coal Gas, 594
Zimmer, Mr. G. F., on the Mechanical Handling and Storing of Material, 316

REGISTER OF PATENTS.

Adams, A. F. H., and the Brighton & Hove General Gas Company—Grabs, 272
Aird, K., and Wortley, G. W.—Atmospheric Burners, 162
Anderson, J.—Prepayment Mechanism, 478
Apps, H. J.—Automatically Closing Gas Supply Services, 160
Barnes, C. S.—Utensil Supports relating to Burners, 653
Barrett Company—Purification of Naphthalene, 328
Beard, P. G., and C. S.—Interconnected Cocks for Geysers, 478
Bilbrough, C. F. S.—Pipe Joints, 479
Bismarckhütte—Separating Water from Coal Tar, 377
Blackstone, G. M., and Carter, F. & E.—Mixing Valves of Gas-Engines, 653
Blumner, E.—Distillation of Tars or Oils, 428
Bohar, V.—Combined Gas Stove and Hot Water System, 329
Broadhead, R. W.—Bearings for Supporting Gasholders, 533, 653
Burton, A. E.—Retort Mouthpieces, 478
Burton, A. E., and Jackson, A. H.—Retort Mouthpieces, 273
Carpenter, C., and Stokes, A.—Perfecting Mantles, 40
Chazard, H., and Scholak, V.—Gas-Fires, 652
Chemical Fuel Company—Catalytic Processes involving Gaseous Carbon Compounds, 99
Christenson, O. L., and Hedman, B. A.—Producing Ammonium Chloride, 98 (2)
Collin, F. J.—Water and Steam Supply to Vertical Retorts, 328
Compagnie pour la Fabrication des Compteurs et Matériel d'Usines à Gaz, and Heeley, G.—Oscillating Bells Gas Meters, 478
Compagnie pour la Fabrication des Compteurs et Matériel d'Usines à Gaz, and Millet, L. C.—Lighting and Extinction of Burners, 39
Conti, J. T. F.—Safety Closure Device, 477
Dale, A. G.—Analysis and Recording of Gases, 707
Davis, R. H.—Registering the Flow of Gas, 160
Ebbw Vale Steel, Iron, and Coal Co., Ltd., and Thickins, D.—Manufacture of Dry Neutral Sulphate of Ammonia, 215
Ewart, J. W.—Geysers, 532
Ewart, J. W., and Fiddes-Stokes, A. E.—Syphon Control for Geysers, 478
Fletcher, Russell, and Co., Ltd., and Mills, J. W.—Back Plates for Gas-Cookers, 708
Florin, A.—Gas-Washers, 533
Fox, T., and Robinson, S.—Prepayment Mechanism, 39
Frankel, H. A.—Quenching and Conveying Coke, 328
Galbraith, W. L., Shannan, W. V., Adam, W. G., and Siderfin, N. E.—Manufacture of Amines from Phenolic Compounds, 652
Gibson, R. K.—Therm and Cubic Feet Indicating Dials for Gas-Meters, 708
Gireaux, G.—Burners for Gas-Heating Stoves, 271
Glossop, W., Bradley, L., and Willsdon, R. W.—Distilling Tar, 707
Glover, W. R., and Smith, J. H.—Atmospheric Burners, 40
Hardie, G. D., and Maclaurin Carbonization, Ltd.—Retort Door and Seal, 328
Harris, E.—Taps for Gas-Burners, 273
Hartmann, C., Vaudt, W., and Adler, N.—Waterless Gasholder, 378
Helps, G.—
  Distribution of Low Grade Gas, 708
  Gas Manufacture, 160, 161 (2)
  Joints of Main Pipes, 99
Hinks, T.—Regulator for Incandescent Burners, 99
Hird, H. P.—Carbonization of Coal, 653
Hislop, J., and Jones, R. M.—Regulating Burners, 652
Holt, E. C., Larkin, F. S., and Galbraith, W. L.—Hot Water Boilers, 427
Humphreys and Glasgow, Ltd.—Improved Brick for Water-Gas Generator, 329
Igranic Electric Company, Ltd. (*Cutler Hammer Manufacturing Company*)—Gas Calorimeters, 426
Johnson, J. Y. ("*Entreprises et Matériel*," *Brussels*)—Discharging Retorts, 39
Keith and Blackman Company, Ltd., Keith, G., and Pointon, J. E.—Safety Cut-Out Device, 708
Klauder, W., Junr.—Gas Turbines, 38
Koppers Company—Purification of Contaminated Liquors, 428
Lamphier, E.—Measuring Calorific Value, 532
Low Temperature Carbonisation, Ltd., and Davidson, T. M.—Retorts, 215
Maclaurin, R.—Enriched Water-Gas Plant, 329
Pearce, F. R. R. J.—Cooking-Stove Combination, 428
Phillips, J. W., and Galbraith, W. L.—Conveying the Products of Combustion from Gas Appliances, 272
Rees, T. Ll. H., Billington, W. J.—Gas Cooking-Stoves, 479
Ryan, B.—Thermostat for Water Heaters, 378
Sadler, H. S.—Grids for Purifiers, 40
Scott-Moncrieff, W. D.—Charging and Discharging Retorts, 377
Sears, S. A., and Twigg, W. R.—Furnaces, 38
Shand, W. L., and M'D.—Gas-Burners for Heating, &c., 38
Short, A.—Gas Cock, 427
Smith, E. W., and Smith Meters, Ltd.—Stuffing-Boxes for Gas-Meters, 378
Smith, J., and Jackson, W. E.—Incandescent Burners, 378
Société Anonyme d'Exploitation des Brevets Cousin dite le Chauffage Industriel—Combustion of Gaseous Fuel in Furnaces, 329
South Metropolitan Gas Company, and Metheringham, J. T.—Connecting a Pipe to a Main under Pressure, 533
South Metropolitan Gas Company, Chandler, D., and Cooke, J. J.—Gas and Air Regulator, 479
South Metropolitan Gas Company and Kinner, H. G. H.—Means for Lifting Producer Doors, 38
Staples, C. W., and Glover, G., & Co., Ltd.—Valve for Prepayment Meters, 271
Stettiner Chamotte-Fabrik Aktiengesellschaft—Gas-Heated Ovens and Retorts, 98
Stimex Gas-Stove Company, Ltd., and Sayner, G. S.—Gas-Burners, 532
Stimson, E. F.—
  Fume Evacuation from Gas Appliances, 653
  Water-Heaters, 533
Stimson, E. F., and Stimex Gas-Stove Company, Ltd.—Thermostats, 532
Stockport Furnaces, Ltd., Duckworth E., and Mead, A.—Gas or Oil Heated Furnaces, 161
Sutton, C. J.—Burners for Incandescent Lighting, 215
Svenska Aktiebolaget Mono—Gas Analysis Recorder, 328
Teisen, T.—Crucible Furnaces, 478
Thermal Industrial & Chemical Research Co., Ltd., Morgan, J. S., and Rider, D.—Distillation of Tar, 652
Turner, F.—Gas-Tap Safety Catch, 40
West, J., and West's Gas Improvement Co., Ltd.—Automatic Charging of Skips, 40
Weyman, G.—Neutralization and Drying of Sulphate of Ammonia, 378
Wilson, J. L.—Distillation of Liquids, 38
Withers, J. S. (*E. R. Lamphier*)—Measuring Calorific Value, 532
Yeadon, J. A.—Continuous Distillation, 479

Ammonium Chloride—Christenson, O. L., and Hedman, B. A., 98 (2)
Analysis and Recording of Gases—Dale, A. G., 707
Automatically Closing Gas-Supply Services—Apps, H. J., 160
Back Plates for Gas Cookers—Fletcher, Russell, and Co., Ltd., and Mills, J. W., 708
Bearings for Supporting Gasholders—Broadhead, R. W., 533, 653
Burners for Gas Heating Stoves—Gireaux, G., 271
Burners—
  Aird, K., and Wortley, G. W., 162
  Compagnie pour la Fabrication des Compteurs et Matériel d'Usines à Gaz, and Millet, L. C., 39
  Glover, W. R., and Smith, J. H., 40
  Hislop, J., and Jones, R. M., 652
  Shand, W. L., and A. M'D., 38
  Smith, J., and Jackson, W. E., 378
  Stimex Gas-Stove Company, Ltd., and Sayner, G. S., 532
  Sutton, C. J., 215
Calorimeters—Igranic Electric Company, Ltd., 426
Carbonization of Coal—Hird, H. P., 653
Catalytic Processes—Chemical Fuel Company, 99
Charging and Discharging Retorts—Scott-Moncrieff, W. D., 377
Combustion of Gaseous Fuel in Furnaces—Société Anonyme d'Exploitation des Brevets Cousin dite le Chauffage Industriel, 329
Connecting a Pipe to a Main under Pressure—South Metropolitan Gas Company, and Metheringham, J. T., 533
Cooking Ovens—Whiteley, T., 99
Cooking Stoves—
  Pearce, F. R. R. J., 428
  Rees, T. Ll. H., and Billington, W. J., 479
Discharging Retorts—Johnson, J. Y., 39
Distillation of Liquids—Wilson, J. L., 38
Distillation of Tar—Thermal Industrial and Chemical Research Co., Ltd., Morgan, J. S., and Rider, D., 652
Distillation of Tars or Oils—Blumner, E., 428
Distillation Plant—Yeadon, J. A., 479
Distilling Tar—Glossop, W., Bradley, L., and Willsdon, R. W., 707
Dry Neutral Sulphate of Ammonia—Ebbw Vale Steel, Iron, and Coal Company, Ltd., and Thickins, D., 215
Enriched Water-Gas Plant—Maclaurin, R., 329
Flue Outlet Device—Phillips, J. W., and Galbraith, W. L., 272
Fume Evacuation from Gas Appliances—Stimson, E. F., 653
Furnaces—
  Sears, S. A., and Twigg, W. R., 38
  Stockport Furnaces, Ltd., Duckworth, E., and Mead, A., 161
  Teisen, T., 478
Gas Analysis Recorder—Svenska Aktiebolaget Mono, 328
Gas and Air Regulator—South Metropolitan Gas Company, Chandler, D., and Cooke, J. J., 479
Gas Cock—Short, A., 427
Gas-Cookers, Back-Plates for—Fletcher, Russell, & Co., Ltd., and Mills, J. W., 708

Gas Cooking Ovens—Whiteley, T., 99
Gas-Fires—Chazard, H., and Scholak, V., 652
Gasholder, a Waterless—Hartmann, C., Vaudt, W., and Adler, N., 378
Gas-Making Plant—Helps, G., 160, 161 (2)
Gas-Meters—Gibson, R. K., 708
Gas-Stove and Hot-Water System—Bohar, V., 329
Gas-Tap Safety Catch—Turner, F., 40
Gas Turbines—Klauder, W., Jun., 38
Gas-Washers—Florin, A., 533
Geysers—Ewart, J. W., 532
Geysers, Interconnected Cocks for—Beard, P. G., and C. S., 478
Grabs—Adams, A. F. H., and the Brighton and Hove General Gas Company, 272
Grids for Purifiers—Sadler, H. S., 40
Hot-Water Boilers—Holt, E. C., Larkin, F. S., and Galbraith, W. L., 427
Improved Brick for Water-Gas Generator—Humphreys & Glasgow, Ltd., 329
Low-Grade Gas, Distribution of—Helps, G., 708
Mantles, Protecting—Carpenter, C., and Stokes, A., 40
Manufacture of Amines from Phenolic Compounds—Galbraith, W. L., Shannon, W. V., Adam, W. G., and Siderfin, N. E., 652
Measuring Calorific Value—Withers, J. S. (*E. R. Lamphier*), 532
Mixing Valves of Gas-Engines—Blackstone, G. M., and Carter, F. & E., 653
Neutralization and Drying of Sulphate of Ammonia—Weyman, G., 378
Oscillating Bells for Gas-Meters—Compagnie pour le Fabrication de Compteurs et Matériel d'Usines à Gaz, and Heeley, G., 478
Ovens and Retorts—Stettiner Chamotte-Fabrik A/G., 98
Pipe Joints—Bilbrough, C. F. S., 479
Pipes—Helps, G., 99
Prepayment Mechanism—
Anderson, J., 478
Fox, T., and Robinson, S., 39
Producer Doors, Means for Lifting—South Metropolitan Gas Company, and Kinner, H. G. H., 38
Purification of Contaminated Liquors—Koppers Company, 428
Purification of Naphthalene—Barrett Company, 328
Quenching and Conveying Coke—Fränkel, H. A., 328
Registering the Flow of Gas—Davis, R. H., 160
Regulator for Incandescent Burners—Hinks, T., 99
Retort Door and Seal—Hardie, G. D., Maclaurin Carbonization, Ltd., 328
Retort Mouthpieces—
Burton, A. E., and Jackson, A. H., 273
Burton, A. E., 478
Retorts—Low Temperature Carbonisation, Ltd., and Davidson, T. M., 215
Safety Closure Device—Conti, J. T. F., 477
Safety Cut-Out Device—Keith's, and Pointon, J. E., 708
Separating Water from Coal Tar—Bismarckhütte, 377
Skips, Automatic Charging of—West, J., and West's Gas Improvement Company, Ltd., 40
Stuffing-Boxes for Gas-Meters—Smith, E. W., and Smith Meters, Ltd., 378
Syphon Control for Geysers—Ewart, J. W., and Fiddes-Stokes, A. E., 478
Taps for Gas Burners—Harris, E., 273
Therm and Cubic Feet Indicating Dials for Gas Meters—Gibson, R. K., 708
Thermostats—
Ryan, B., 378
Stimson, E. F., and Stimex Gas Stove Company, Ltd., 532
Utensil Supports Relating to Burners—Barnes, C. S., 653
Valve for Prepayment Meters—Staples, C. W., and Glover, G., and Co., Ltd., 271
Vertical Retorts, Water and Steam Supply to—Collins, F. J., 328
Water Heater—Stimson, E. F., 533

Applications for Patents, 49, 98, 162, 215, 273, 329, 379, 429, 479, 533, 600, 653, 708

CORRESPONDENCE.

Barford, Alfred R.—Dearer Gas, 377
Bell, J. Ferguson—Safeguarding of Industries, 37
Briggs, F. C.—Life of Gas-Meters Report, 160
British Commercial Gas Association—
Gas Salesmen's Conferences, 270
Lighting Committee, 270
Some Gas-Burners and a Moral, 97
Burners (1921), Ltd.—Standardization of Burners, 271
Country Works Manager—The Equity of the Therm Basis—The Simplicity of the Volumetric, 270
Cunnington, Arthur—The Hand of the Competitor, 426
Dasnieres, C.—Avoiding Spontaneous Combustion, 160
Davies, H.—Coke-Oven Gas Supply at Chesterfield, 37
Day, W. H.—Therm Education, 270
Edwards, R. W.—Therm Agitation, 426
Gibson, Robert Kay—Indicating Device for Registering Cubic Feet or Therms, 327
Goodenough, F. W.—"B.C.G.A." Advertising, 37
Gregory, Paul—Production Efficiency by Injecting Oil on to Incandescent Coke, 597
Guttridge, Joseph A.—Therms, 532
Helps, D. H.—Newspaper Gas Account Agitation, 327
Kendrick, H.—
Education of Gas Engineers, 98
Life of Gas-Meters Report, 97
Liberty, W. J.—Some Gas-Burners and a Moral, 37, 214
Lowe, J.—Manufacture of Blue Water Gas in Conjunction with Coal Gas, 477
Oikonomia—The Gas Therm, 477
Pardy, H. F.—Trade Press and the Public, 377
Robb, James—Strictures from the Welsh Meeting, 36
Shadbolt, R. G., and Briggs, F. C.—National Association of Technical Gas Officials, 97
Standen, Lt.-Colonel Robert—The Smokeless City, 597
Taplay, J. G., and Parkinson, B. R.—Life of Gas-Meters Committee Report, 214

Avoiding Spontaneous Combustion, 160
"B.C.G.A." Advertising, 37
"B.C.G.A." Lighting Committee, 270
Coke-Oven Gas Supply at Chesterfield, 37
Dearer Gas, 377
Education of Gas Engineers, 98
Equity of the Therm Basis—The Simplicity of the Volumetric, 270
Gas Salesmen's Conferences, 270
Gas Therm, 477
Hand of the Competitor, 426
Life of Gas-Meters Report, 97, 160, 214
Manufacture of Blue Water Gas in Conjunction with Coal Gas, 477
Meter Registering Cubic Feet and Indicating Therms, 327
National Association of Technical Gas Officials, 97
Newspaper Gas Account Agitation, 327
Production Efficiency by Injecting Oil on to Incandescent Coke, 597
Safeguarding of Industries, 37
Smokeless City, 597
Some Gas-Burners and a Moral, 37, 97, 214
Standardization of Burners, 271
Strictures from the Welsh Meeting, 36
Therm Agitation, 426
Therm Education, 270
Therms, 532
Trade Press and the Public, 377

PARLIAMENTARY INTELLIGENCE.

Benzole Production in the United Kingdom, 330
Bills Royal Assented, 216, 330
Birmingham Corporation Bill, 162
Buckhaven and Leven Gas Commission Order Confirmation Bill, 41
Chester Gas Bill, 216
Croydon Gas Bill, 41
Doncaster Corporation Bill, 100
Duty on Gas Mantle Ingredients, 273
Electricity Supply Bill, 102
Gas and Electric Light Prices, 162
Gas Companies' Charges, 330
Gas Mantle Inquiry, German Witnesses at, 40
Gas Mantles (Imported) and Taxation, 40
Gas Regulation Act (Special Orders), 162, 216, 273, 330
Gas Works Effluent and River Pollution, 41
Imported Glassware, 162, 216
Neath Corporation Bill, 100
Progress of Bills, 40, 100, 162, 216, 273, 330
Public Utility Companies (Capital Issues) Act, 162, 216
Ramsgate Corporation Bill, 100
Safeguarding of Industries Act (1921), 41
Smoke Abatement Bill, 217
Smoke Abatement Conferences, 273
South Wales Electrical Power Distribution Company Bill, 41, 100
Valuation and Rating of Public Utility Undertakings, 273
Windsor Gas Bill, 100
Worthing Corporation Bill, 41

LEGAL INTELLIGENCE.

Alleged River Pollution from Gas-Works, 42
Bradford Lamplighter's Fraud, 221
Douglas, Thomas, & Co., 334
Dundee, Prepayment Meter Theft at, 433
Elmsall Gas-Works, 214
Eyemouth Gas Company, Rating Appeal, 653
Gas-Mantle Agents' Failure, 163
Gas-Mantle Ring Maker's Failure, 271
Largs and Lundin Links Gas Company—Income-Tax Appeal, 42
Liability of Householders who Fail to Give Notice on Leaving Premises, 103
Metal Discs in a Prepayment Meter, 162
New Coldstream Gas Light and Coke Company, Rating Appeal, 653
New Mills, Stealing from a Slot-Meter at, 659
Oldbury, Alleged Theft of Gas at, 42
Paignton, Assaulting a Gas Official at, 713
Plymouth, Slot-Meter Offence at, 108
Richmond Light Manufacturing Company, Ltd., 163
Wrexham, Alleged Gas-Meter Fraud at, 435